



Input Set : N:\Crf3\RULE60\09714792.raw
Output Set: N:\CRF3\04122002\I714792A.raw

SEQUENCE LISTING

```
(1) GENERAL INFORMATION:
      3
             (i) APPLICANT: Collins, Mary
      6
                            Donaldson, Debra
     7
                            Fitz, Lori
                            Neben, Tamlyn
      8
     9
                            Whitters, Matthew
                            Wood, Clive
     10
            (ii) TITLE OF INVENTION: EYTOKINE RECEPTOR CHAIN
     12
           (iii) NUMBER OF SEQUENCES 9
     14
            (iv) CORRESPONDENCE ADDRESS:
     16
                  (A) ADDRESSEE: Genetics Institute, Inc.
     17
     18
                  (B) STREET: 87 CambridgePark Drive
    19
                  (C) CITY: Cambridge
                  (D) STATE: MA
     20
     21
                  (E) COUNTRY: USA
                                                              ENTERED
     22
                  (F) ZIP: 02140
     24
             (V) COMPUTER READABLE FORM:
     25
                  (A) MEDIUM TYPE: Floppy disk
     26
                  (B) COMPUTER: IBM PC compatible
     27
                  (C) OPERATING SYSTEM: PC-DOS/MS-DOS
     28
                  (D) SOFTWARE: PatentIn Release #1.0, Version #1.25
            (vi) CURRENT APPLICATION DATA:
     30
C--> 31
                  (A) APPLICATION NUMBER: US/09/714,792A
C--> 32
                  (B) FILING DATE: 16-Nov-2000
     33
                  (C) CLASSIFICATION:
C--> 36
           (vii) PRIOR APPLICATION DATA:
                  (A) APPLICATION NUMBER: US/08/609,572
     37
     38
                  (B) FILING DATE:
     40
          (viii) ATTORNEY/AGENT INFORMATION:
     41
                  (A) NAME: Brown, Scott A.
     42
                  (B) REGISTRATION NUMBER: 32,724
     43
                  (C) REFERENCE/DOCKET NUMBER: GI5268
     45
            (ix) TELECOMMUNICATION INFORMATION:
     46
                  (A) TELEPHONE: (617) 498-8224
     47
                  (B) TELEFAX: (617) 876-5851
     50
        (2) INFORMATION FOR SEQ ID NO: 1:
     52
             (i) SEQUENCE CHARACTERISTICS:
     53
                  (A) LENGTH: 1525 base pairs
     54
                  (B) TYPE: nucleic acid
     55
                  (C) STRANDEDNESS: double
     56
                  (D) TOPOLOGY: linear
     58
            (ii) MOLECULE TYPE: cDNA
```

Input Set : N:\Crf3\RULE60\09714792.raw
Output Set: N:\CRF3\04122002\1714792A.raw

60	(iii) HYPOTHETICAL: NO													
63	(ix) FEATURE:													
64 65	(A) NAME/KEY: CDS (B) LOCATION: 2561404													
-	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:													
70	GAATTCGGCA CGAGGGAGAG GAGGAGGGAA AGATAGAAAG AGAGAGAG	60												
70 72	CTACCCCTGA ACAGTGACCT CTCTCAAGAC AGTGCTTTGC TCTTCACGTA TAAGGAAGGA	120												
74	AAACAGTAGA GATTCAATTT AGTGTCTAAT GTGGAAAGGA GGACAAAGAG GTCTTGTGAT	180												
76	AACTGCCTGT GATAATACAT TTCTTGAGAA ACCATATTAT TGAGTAGAGC TTTCAGCACA	240												
78	CTAAATCCTG GAGAA ATG GCT TTT GTG CAT ATC AGA TGC TTG TGT TTC ATT	291												
79	Met Ala Phe Val His Ile Arg Cys Leu Cys Phe Ile													
80	1 5 10													
82	CTT CTT TGT ACA ATA ACT GGC TAT TCT TTG GAG ATA AAA GTT AAT CCT	339												
83	Leu Leu Cys Thr Ile Thr Gly Tyr Ser Leu Glu Ile Lys Val Asn Pro													
84	15 20 25													
86	CCT CAG GAT TTT GAA ATA TTG GAT CCT GGA TTA CTT GGT TAT CTC TAT	387												
87	Pro Gln Asp Phe Glu Ile Leu Asp Pro Gly Leu Leu Gly Tyr Leu Tyr													
88	. 30 35 40													
90	TTG CAA TGG AAA CCT CCT GTG GTT ATA GAA AAA TTT AAG GGC TGT ACA	435												
91	Leu Gln Trp Lys Pro Pro Val Val Ile Glu Lys Phe Lys Gly Cys Thr													
92	45 50 55 60													
94	CTA GAA TAT GAG TTA AAA TAC CGA AAT GTT GAT AGC GAC AGC TGG AAG	483												
95	Leu Glu Tyr Glu Leu Lys Tyr Arg Asn Val Asp Ser Asp Ser Trp Lys													
96	65 70 75													
98	ACT ATA ATT ACT AGG AAT CTA ATT TAC AAG GAT GGG TTT GAT CTT AAT	531												
99	Thr Ile Ile Thr Arg Asn Leu Ile Tyr Lys Asp Gly Phe Asp Leu Asn													
100	80 85 90	E70												
102	AAA GGC ATT GAA GGA AAG ATA CGT ACG CAT TTG TCA GAG CAT TGT ACA	579												
103 104	Lys Gly Ile Glu Gly Lys Ile Arg Thr His Leu Ser Glu His Cys Thr 95 100 105													
104	AAT GGA TCA GAA GTA CAA AGT CCA TGG ATA GAA GCT TCT TAT GGG ATA	627												
107	Asn Gly Ser Glu Val Gln Ser Pro Trp Ile Glu Ala Ser Tyr Gly Ile	027												
108	110 115 120													
110	TCA GAT GAA GGA AGT TTG GAA ACT AAA ATT CAG GAC ATG AAG TGT ATA	675												
111	Ser Asp Glu Gly Ser Leu Glu Thr Lys Ile Gln Asp Met Lys Cys Ile	• , =												
112	125 130 135 140													
114	TAT TAT AAC TGG CAG TAT TTG GTC TGC TCT TGG AAA CCT GGC AAG ACA	723												
115	Tyr Tyr Asn Trp Gln Tyr Leu Val Cys Ser Trp Lys Pro Gly Lys Thr													
116	145 150 155													
118	GTA TAT TCT GAT ACC AAC TAT ACC ATG TTT TTC TGG TAT GAG GGC TTG	771												
119	Val Tyr Ser Asp Thr Asn Tyr Thr Met Phe Phe Trp Tyr Glu Gly Leu													
120	160 165 170													
122	GAT CAT GCC TTA CAG TGT GCT GAT TAC CTC CAG CAT GAT GAA AAA AAT	819												
123	Asp His Ala Leu Gln Cys Ala Asp Tyr Leu Gln His Asp Glu Lys Asn													
124	175 180 185													
126	GTT GGA TGC AAA CTG TCC AAC TTG GAC TCA TCA GAC TAT AAA GAT TTT	867												
127	Val Gly Cys Lys Leu Ser Asn Leu Asp Ser Ser Asp Tyr Lys Asp Phe													
128	190 195 200													
130	TTT ATC TGT GTT AAT GGA TCT TCA AAG TTG GAA CCC ATC AGA TCC AGC	915												

Input Set : N:\Crf3\RULE60\09714792.raw
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131	Phe 1	Tle	Cvs	Val	Asn	Glv	Ser	Ser	Lvs	Leu	Glu	Pro	Tle	Ara	Ser	Ser	
132	205		-1-			210			-1-		215			5		220	
134	TAT A	ACA	GTT	TTT	CAA	CTT	CAA	AAT	ATA	GTT	AAA	CCA	TTG	CCA	CCA	GAA	963
135	Tyr 1	rhr	Val	Phe	Gln	Leu	Gln	Asn	Ile	Val	Lys	Pro	Leu	${\tt Pro}$	${\tt Pro}$	Glu	
136					225					230					235		
138	TTC (CTT	CAT	ATT	AGT	GTG	GAG	AAT	TCC	ATT	GAT	ATT	AGA	ATG	AAA	TGG	1011
139	Phe I	Leu	His	Ile	Ser	Val	Glu	Asn	Ser	Ile	Asp	Ile	Arg	Met	Lys	Trp	
140				240					245					250			
142	AGC A	ACA	CCT	GGA	GGA	CCC	ATT	CCA	CCA	AGG	TGT	TAC	ACT	TAT	GAA	ATT	1059
143	Ser 1			Gly	Gly	Pro	Ile		Pro	Arg	Cys	Tyr		\mathtt{Tyr}	Glu	Ile	
144			255					260					265				
146	GTG A																1107
147	Val 1		Arg	Glu	Asp	Asp		Ser	Trp	Glu	Ser		Thr	Asp	Lys	Asn	
148		270					275					280	~~~				
150	GAT A																1155
151	Asp N	мет	гĀг	Leu	Lys		Arg	Ата	Asn	GIU		GIU	Asp	Leu	Cys		
152	285	~ m ~		mam		290	3 3 77	3 00 3	mam	тот	295	CAM	C A III	003	a mm	300	
154	TTT C														_		1203
155	Phe V	Val	Arg	Cys	305	val	ASII	тте	TYL	310	Ата	ASP	ASP	СТУ	315	ттр	
156 158	AGC C	א אי	TICC	λсπ		GAG	CAA	ምረጥ	TCC		ССТ	ጥል ሮ	A C A	ccc		GAC	1251
159	Ser (1231
160	Ser (31 u	TTP	320	GIU	GIU	GIU	Cys	325	GIU	OLy.	- 7 -	1111	330	110	пор	
162	TCA A	A A G	Δጥጥ		ጥጥር	ΔΤΔ	СТА	CCA		тст	СТТ	ттс	ጥጥጥ		TTC.	СТТ	1299
163	Ser I																
164	501 1	_,_	335					340		0,12			345				
166	TTG T	гта		CTT	TGC	CTT	ATT		GAG	AAG	GAA	GAA	CCT	GAA	CCC	ACA	1347
167	Leu I																
168		350			•		355			-		360					
170	TTG A	AGC	CTC	CAT	GTG	GAT	CTG	AAC	AAA	GAA	GTG	TGT	GCT	TAT	GAA	GAT	1395
171	Leu S	Ser	Leu	His	Val	Asp	Leu	Asn	Lys	Glu	Val	Cys	Ala	Tyr	Glu	Asp	
172	365					370					375					380	
174	ACC C	CTC	TGT	TAAA	ACCAC	CCA A	ATTTC	CTTG	AC A	l'AGA(CCAC	CCE	AGCA	GAG			1444
175	Thr I	Leu	Cys														
178	TCATA	ATTA	AA C	TCA	ATTTC	CT CI	TAA?	TTA	CG2	ATA	CATC	TTC	TGA	AAA :	rcca <i>i</i>	AAAAA	1504
180	AAAA																1525
183	(2) INF																
185	i')	i) S			CHAI												
186					STH:				cids								
187					E: an												
188					LOGY												
190	•	•			TYPE	-			. TD	NO .	2.						
192		-			DESC							т1.	T 0.11	T 0.11	0	mh so	
194	Met A	Ата	Pne	vaı	_	TTE	Arg	Cys	ren		Pne	тте	Leu	Leu		THE	
195 197	1 710 7	rh∽	G1 v	Фатъ	5 Sar	Leu	Glu	т1 о	Lare	10 Val	λen	Dro	Dro	Cln	15 Agn	Dho	
197	Ile 1	TIIT	стХ	20	26T	ьец	GIU	тте	<u>гу</u> ѕ	val	MSII	FIO	PIO	30	nsp	FIIG	
200	Glu 1	T1_	Leu		Dro	Glv	T.eu	נום.		ጥጥ	Len	ጥኒንዮ	T.eu		ጥፖኮ	Lvs	
201	GIU I	TTE	35	rap	110	G T Y	⊂u	40	O T Y	- Y -	Leu	- Y -	45	OTH	++P	-17 J	
201			55					40					4 J				

Input Set : N:\Crf3\RULE60\09714792.raw
Output Set: N:\CRF3\04122002\I714792A.raw

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Pro Pro Val Val Ile Glu Lys Phe Lys Gly Cys Thr Leu Glu Tyr Glu
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204
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206
      Leu Lys Tyr Arg Asn Val Asp Ser Asp Ser Trp Lys Thr Ile Ile Thr
207
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209
      Arg Asn Leu Ile Tyr Lys Asp Gly Phe Asp Leu Asn Lys Gly Ile Glu
210
                       85
                                            90
212
      Gly Lys Ile Arg Thr His Leu Ser Glu His Cys Thr Asn Gly Ser Glu
213
                  100
                                       105
      Val Gln Ser Pro Trp Ile Glu Ala Ser Tyr Gly Ile Ser Asp Glu Gly
215
216
                                   120
218
      Ser Leu Glu Thr Lys Ile Gln Asp Met Lys Cys Ile Tyr Tyr Asn Trp
219
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      Gln Tyr Leu Val Cys Ser Trp Lys Pro Gly Lys Thr Val Tyr Ser Asp
221
222
                          150
                                               155
224
      Thr Asn Tyr Thr Met Phe Phe Trp Tyr Glu Gly Leu Asp His Ala Leu
225
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                                           170
227
      Gln Cys Ala Asp Tyr Leu Gln His Asp Glu Lys Asn Val Gly Cys Lys
228
                  180
                                       185
230
      Leu Ser Asn Leu Asp Ser Ser Asp Tyr Lys Asp Phe Phe Ile Cys Val
231
                                   200
      Asn Gly Ser Ser Lys Leu Glu Pro Ile Arg Ser Ser Tyr Thr Val Phe
233
234
                               215
                                                   220
      Gln Leu Gln Asn Ile Val Lys Pro Leu Pro Pro Glu Phe Leu His Ile
236
237
                           230
                                               235
239
      Ser Val Glu Asn Ser Ile Asp Ile Arg Met Lys Trp Ser Thr Pro Gly
240
                      245
                                           250
      Gly Pro Ile Pro Pro Arg Cys Tyr Thr Tyr Glu Ile Val Ile Arg Glu
242
243
                                       265
245
      Asp Asp Ile Ser Trp Glu Ser Ala Thr Asp Lys Asn Asp Met Lys Leu
246
                                   280
                                                       285
248
      Lys Arg Arg Ala Asn Glu Ser Glu Asp Leu Cys Phe Phe Val Arg Cys
249
                               295
                                                   300
251
      Lys Val Asn Ile Tyr Cys Ala Asp Asp Gly Ile Trp Ser Glu Trp Ser
252
                          310
                                               315
254
      Glu Glu Cys Trp Glu Gly Tyr Thr Gly Pro Asp Ser Lys Ile Ile
255
                      325
                                           330
257
      Phe Ile Val Pro Val Cys Leu Phe Phe Ile Phe Leu Leu Leu Leu Leu
258
260
      Cys Leu Ile Val Glu Lys Glu Glu Pro Glu Pro Thr Leu Ser Leu His
261
                                   360
                                                        365
      Val Asp Leu Asn Lys Glu Val Cys Ala Tyr Glu Asp Thr Leu Cys
263
264
266 (2) INFORMATION FOR SEQ ID NO: 3:
         (i) SEQUENCE CHARACTERISTICS:
268
269
              (A) LENGTH: 1369 base pairs
270
              (B) TYPE: nucleic acid
              (C) STRANDEDNESS: double
271
272
              (D) TOPOLOGY: linear
        (ii) MOLECULE TYPE: cDNA
274
```

Input Set : N:\Crf3\RULE60\09714792.raw
Output Set: N:\CRF3\04122002\I714792A.raw

276 (iii) HYPOTHETICAL: NO 279 (ix) FEATURE:																	
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286																	60
288	GGCGGGGAGA GAGGCAATAT CAAGGTTTTA AATCTCGGAG AA ATG GCT TTC GTT Met Ala Phe Val										114						
289												P	1et 1	ıta ı	ne v	/al	
290	maa	mmc	COM	a ma	CCA	TGC	mm x	mam	N.C.C	mmm	CTIC	אתה		א כיז	7 C 7	முமும	162
292																	102
293	Cys 5	ьeu	Ala	тте	СТА	Cys 10	ьeu	TYL	TILL	Pile	15	116	ser	TIIL	TILL	20	
294	_	mcm	አ ረግጥ	mC3	m/cm	TCA	CAC	አርር	CAC	א ידי א		CTT	77 C	ССТ	ССТ		210
296 297						Ser											210
298	GIY	Cys	1111	261	25	261	кэр	1111	GIU	30	цуз	Vul	non.	110	35	OIII	
300	САТ	արար	GAG	ב יד ב		GAT	CCC	GGA	TAC		GGT	тат	СТС	тат		CAA	258
301						Asp											230
302	изъ	rne	GIU	40	Vu_	пър	110	OT,	45	пси	011	+1-	Leu	50		0.1.1	
304	TGG	CAA	CCC		CTG	TCT	CTG	GAT		ттт	AAG	GAA	TGC		GTG	GAA	306
305						Ser								_	_	_	
306			55					60			-1-		65				
308	TAT	GAA		AAA	TAC	CGA	AAC	ATT	GGT	AGT	GAA	ACA	TGG	AAG	ACC	ATC	354
309						Arg											
310	-1-	70					75		•			80	•	•			
312	ATT	ACT	AAG	AAT	CTA	CAT	TAC	AAA	GAT	GGG	TTT	GAT	CTT	AAC	AAG	GGC	402
313						His										_	
314	85		-			90	-	-	_	_	95	_			_	100	
316	ATT	GAA	GCG	AAG	ATA	CAC	ACG	CTT	TTA	CCA	TGG	CAA	TGC	ACA	AAT	GGA	450
317	Ile	Glu	Ala	Lys	Ile	His	Thr	Leu	Leu	Pro	Trp	Gln	Cys	Thr	Asn	Gly	
318					105					110					115		
320						TCC											498
321	Ser	Glu	Val	Gln	Ser	Ser	\mathtt{Trp}	Ala	Glu	Thr	Thr	Tyr	\mathtt{Trp}	Ile	Ser	Pro	
322				120					125					130			
324						ACT											546
325	Gln	Gly	Ile	Pro	Glu	Thr	Lys		Gln	Asp	Met	Asp		Val	Tyr	Tyr	
326			135					140					145				
328						CTC											594
329	Asn	_	Gln	Tyr	Leu	Leu	_	Ser	\mathtt{Trp}	Lys	Pro		Ile	Gly	Val	Leu	
330		150					155					160					
332						AAC											642
333		Asp	Thr	Asn	Tyr	Asn	Leu	Phe	Tyr	Trp		Glu	GIY	Leu	Asp		
334	165					170					175					180	
336						GAT											690
337	Ala	Leu	GIn	Cys		Asp	Tyr	ITe	Lys		Asp	GIŸ	GIn	Asn		GLŸ	
338	me =			000	185	mm	a	003	m.c.=	190	m - ~		a	mm~	195	3.000	730
340						TTG											738
341	cys	arg	ьие		Tyr	Leu	GIU	ата		ASP	туr	гĀ2	Asp		TAL	TTE	
342	mor.	a mm		200	ma.	mc a	030	N N C	205	COTT	אשמ	202	maa	210	m v m	mm.c	706
344	TGT	GTT	AA'I'	GGA	TCA	TCA	GAG	AAC	AAG	CCT	ATC	AGA	TCC	AGT	TAT	TTC	786

VERIFICATION SUMMARY

7025

DATE: 04/12/2002

PATENT APPLICATION: US/09/714,792A

TIME: 11:40:36

Input Set : N:\Crf3\RULE60\09714792.raw
Output Set: N:\CRF3\04122002\I714792A.raw

L:31 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:32 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:36 M:220 C: Keyword misspelled or invalid format, [(vii) PRIOR APPLICATION DATA:]
L:484 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=5
L:499 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=6
L:514 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=7
L:529 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=8
L:544 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=9